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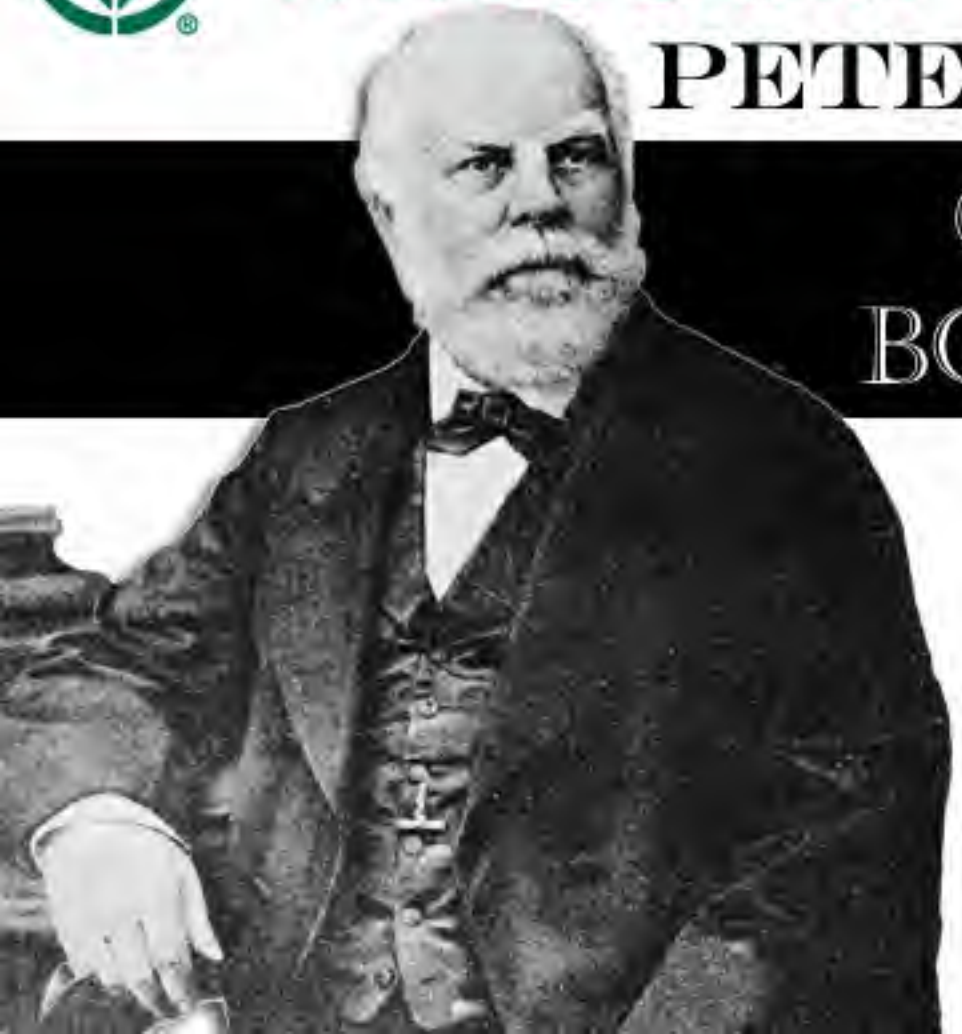

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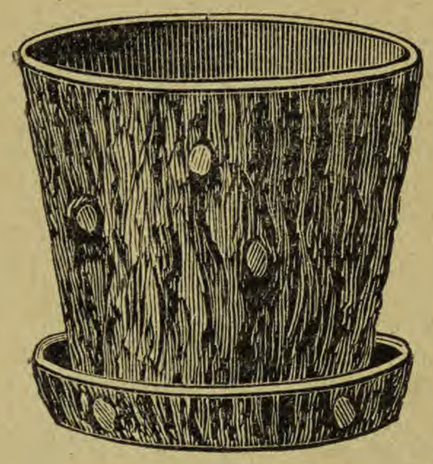

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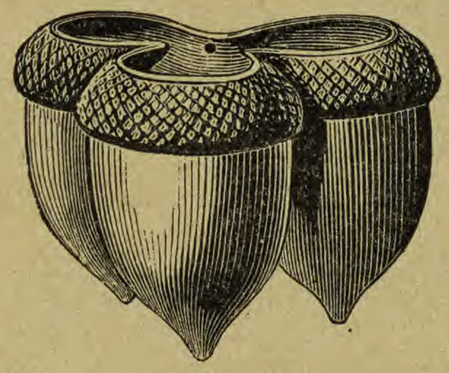

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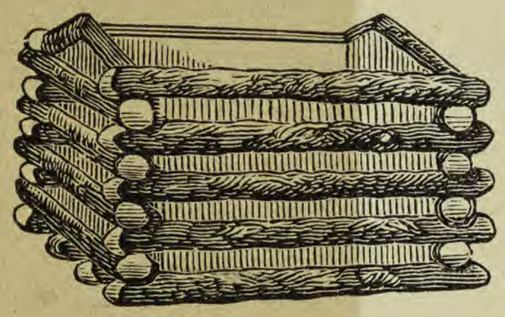

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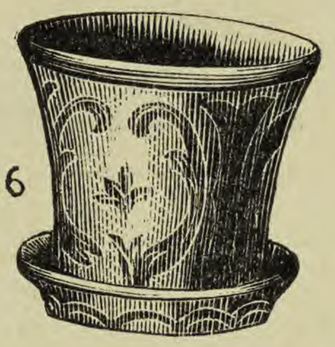

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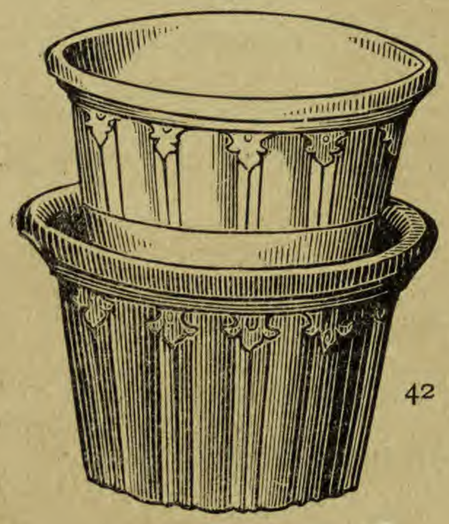

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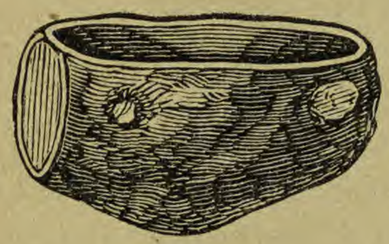

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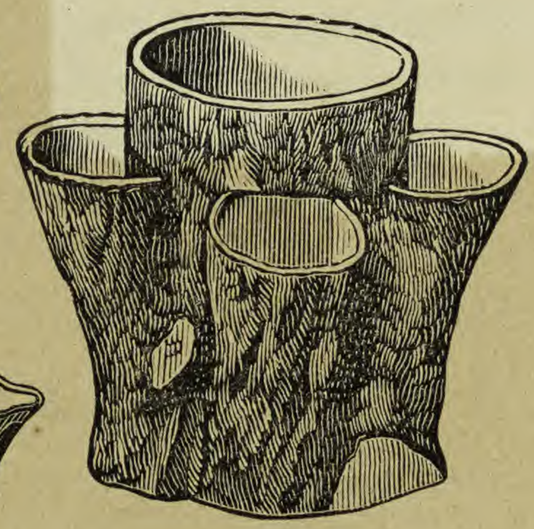

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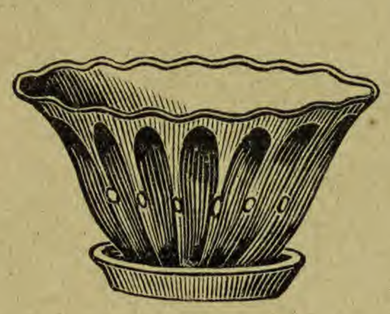

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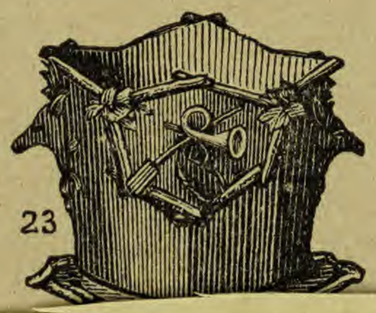

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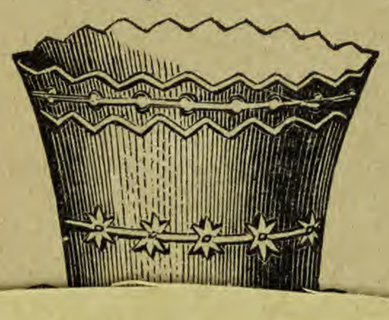

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10480

Inhalts-Verzeichniß.

Zur Bequemlichkeit unserer Kunden haben wir die verschiedenen Klassen der Blumen in Abtheilungen so arrangirt, daß mit ein wenig Sorgfalt Niemand beim Durchsehen unseres Blumenführers irre geleitet werden kann, sondern die rechte Sorte Samen oder Pflanzen, welche er wünscht, leicht auswählen kann. Außerdem fügen wir ein alphabetisches Inhalts-Verzeichniß bei, sodaß irgend Jemand, selbst wenn er nur den Namen der Blume weiß, ohne dessen Character zu kennen, dieselbe hier finden kann, und gleichzeitig die Abtheilung, worin sie belangt, angiebt, undzu welchem Zwecke sie sich am besten eignet.

Einjährige.

Einjährige, und alle Samen, welche Blumen die erste Jahreszeit erzeugen 8–23
Schlingpflanzen 24–26
Immerwährende Blumen, Samen 27, 28
Ziergräser, Samen 29
Strohblumen, Gräser, Körbe, Bouquets 30–32

Perennirende.

Perennirende Samen, welche Blume erst das zweite Jahr erzeugen, und den Winter überleben 33–37
Gewächshaus-Sämereien 38, 39

Blumenzwiebeln und Pflanzen.

Blumenzwiebeln und Pflanzen, daausuernd . . 40–49
Zarte Pflanzen 50–69
Pflanzen für Zierbeete. Beliebte Beetpflanzen, Dollar Kollection 79

Gemüse

Gemüse 71–87
Neue Kartoffeln zum Pflanzen 89
Gras und Kleearten 88
Würzkräuter 87, 88
Samen in großen Quantitäten 89
Samen nöthig für einen Acker 89

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Feb 7 1880

Segment

several capillary scales, each probably with one or two ovules.

The entire scale with two sets of ovules, the outer one belonging to the bract adnated to the axis of the cone, the other to the carpel itself, above the former, arranged [illegible] and (fanlike) each bearing several, usually 4 ovules in pairs, below in the carpellary part

In the prolification the lateral carpels remain fertile, bear seeds (though empty ones) the centre, which axis of the (branch) (abortive) which bears the capillary scales, grows out, its axis separates for that of the carpels (see sect - 3 and 4), which the lateral carpels remain attached, and bear seeds. On the elongating axis are numerous knobby carpel scales like leaves, which gradually

over

Make room for short pedicel, and clasp
regular leaves.

Sometimes the axis or rather the base
of its leaves, which covers it, bears
few rudimentary ones, raised above
the base.

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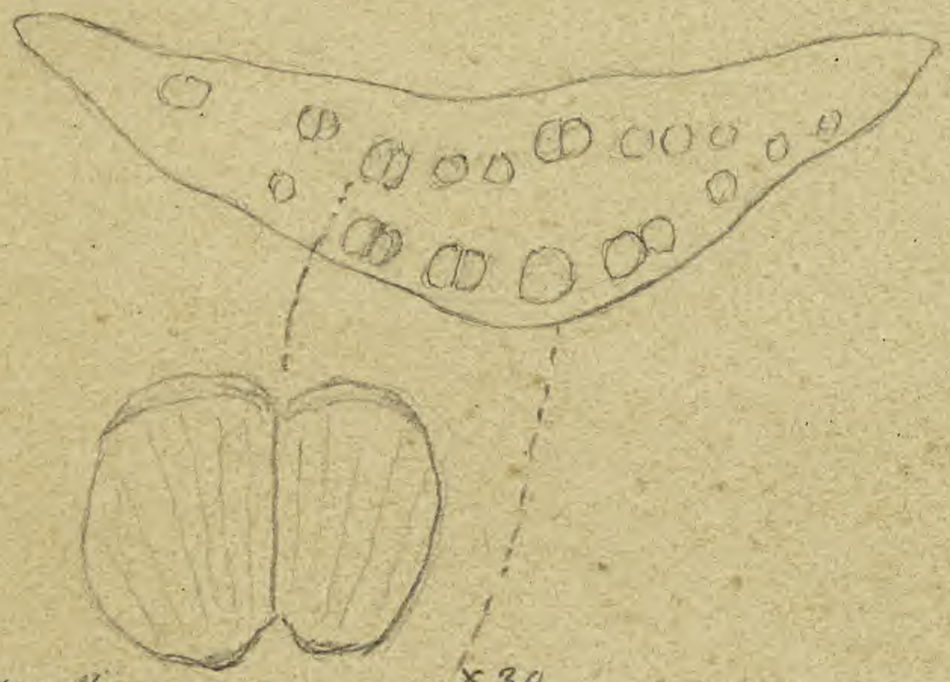
Sequoia gigantea

scales of mature cone

March 19 1880

Transverse section

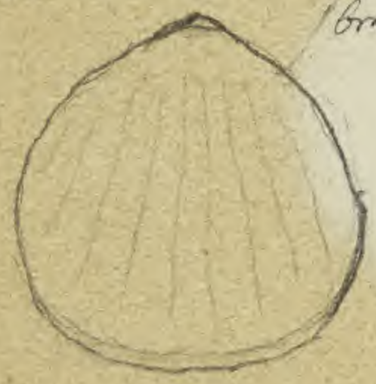
×4



carpellary or upper bundle

×30

Bracteal or Outer bundle



×180

wood cells, xylem

bast cells? phloëm

narrow tissue on the outside of the wood, very close, which must be the bast cells

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Picea nigra

Sept 2. 1863

Pontiac, Michigan

most cones pointed with elongated axis bearing a terminal bud (now developed) and a few leaves under it

upper most (bract) (or perhaps) scale?

lowest leaf

White sloanes (white lead) blacked by sulphurous gases!

Second leaf of branchlet growing out of axis

10483

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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Tsuga Canadensis

1. Proliferous Cone twice magnified 5 times
2-9 bracts below and at the base of the cone
2 Lowest Leaf below the base of the cone magn as all the follow
3 fifth Leaf more reduced in size, but still with
4. Sixth Leaf or bract with Two separate
side, from the very base of the axil itself
and below the finally persistent petiole
5 Seventh bract with similar axillary leaves
6 Eighth bract with its 2 axillary leaves
7 Ninth bract, similar to eight,
8 Tenth bract in both these the united, leaves
forms a single notched organ, the midrib of the
fertile scale is smaller than the bract,
9. Tenth bract with a larger, still notched scale
in the axil
9 fifteenth bract with a still larger notched scale
10 bract in the middle of the cone, with
a large ovule-bearing scale in the
axil (only indicated)
11-14 bracts from the base of the proliferous
shoot at the top of the cone.
11 the last bract with an axillary scale, that
the bract smaller, but otherwise not altered
from the normal form, axillary scale much reduced
in size, but not divided
12-14 succeeding bracts, sterile, gradually
changing into leaves,

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Franklin!

Mar.

Dear Sir!—

Can you
inform me where I can obtain
loan — a copy of y
& the Mex. Boundary
to be some special
this order this acco
photographs or mel
mens, and I shall
much to carry you
me

Yours

H. H. C

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Strasburger, Conifern 1872

p. 122 (Pinus montana) the anther cells are formed as oblong tuberifications near the base of the Back of the obovate stamen. [not a word about other Coniferous anthers]

p. 129 Salisburia has pollengrains = Monocotyledy, folds (spirals) length ways, spheroidal in water.

130 The cells within the pollen are analogous to the protoplasm of ferns etc

171 androgynous strobils not uncommon, at the base with anthers (male flowers), towards the apex female; common in Catania on P. Laricio and all the transitions from male to female from it see also Richard t. 14 f 3

173 History Targioni Tozetti 1810 the first Gymnosperm ist

193 A Braun (das Individuum der Pflanze) 1853 note to page 65. gives for the first time the theory of 2-cotyledony in Polyembryonie 860 p. 242

200 Ovules a single integument in Conifers except Salisburia and Podocarpus Strickler 1863 double also in Gnetaceae single in Abietineae and Cephalotaxus

219 Van Tieghem 1869 proved that the Cycads and Coniferæ are true Gymnosperms with open carpels which are in Coniferæ the first leaf (or leaves?) of a secondary axis in the axil of a bract which leaf is always reversed turning its upper side to the bract. The woodpart of the vessel bundles is turned towards the bract And the apparently single series of Cupressineæ are a double, three arranged system of bundles, (a confluence of two or) bract & scale

319 The Coatings shell of the seed is burst irregularly or dorsiventrally regularly in 2 halves; the thin seed coat (note; originating from the nucleus which is pushed away) is burst through in generative etc [Pteris fern shell and seed coat — 2 coats]

1825 A. Braun in Flora Voyage Appert a very cautious exposition of the doctrine of Gymnosperms

" aus dem verdrängten Nucleus erzeugt "

and pg 321 in Ephedra: Die von den Nucleus reste gebildete Samenhaut

10485

Museum of the Southern Illinois Normal University,

Carbondale, Aug. 5 1879.

Prof Sereno Watson
Cambridge, Mass.

Dear Sir.

Your card of the 1st inst. is rec'd. Enclosed please find $5. for which send me a copy of Dr Gray's revision of the flora of N. A. of which I wrote you before

Very truly yours,

G. H. French.
Carbondale,
Illinois

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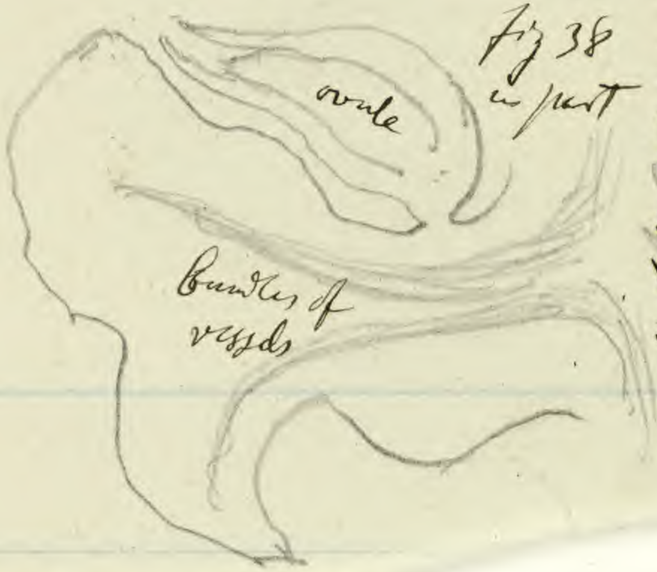
Juniperis
Cupressus ♀ fl (Strasb. Comif. & Gnet tab IV. fig 33 x 37)
~~Kafka~~ numerous ovules

Cambridge Aug 1882



x6

transverse through a
scale x 7

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New Haven, Feb 12th 19

Dear Sir,

There is no special reason for haste in returning my photographs — it is done in a month or two.

[J. 30. r grew in nearly fresh water, if I remember rightly. All those from the neighborhood of the Humboldt Lake & slough were found in quite strongly alkaline water — scarcely drinkable.

Please address the package to me here — Care Prof. D. C. Eaton.

Yours Very Respectfully

Evans Graham

Schnizlein p. 228—233

10487

Abietineae have reversed ovules
and therefore erect Cotyledons

Cupressineae erect ovules
and reversed cotyledons

Taxodieae - - - the same
Taxodium Glyptostrobus Cryptomeria

Sequoieae according to Schnizlein p. 229 have
Sequoia Athrotaxis
reversed ovules and therefore erect Cotyl
[ovules at first erect!]

Sciadopitys the same

Araucarieae Pedale minute, Bract very large
Cunninghamia, Damara, Araucaria

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Dr Ed. Strasburger, die Coniferen und Gnetaceen.
eine morphologische Studie, Jena 1872

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p. 322. Sciadopitys germinates with 2 Cotyledons and develops in the first year only single (simple) leaves, about 6 in number, which with the Cotyledons form a false verticil; in the following years the peculiar Double-leaves in the axils of scaly buds are formed

321 No buds develope in the axils of the first leaves of the seedling in Abietineae, nor in Taxus; but Thuja often shows such buds

322a in Cupressineae the buds in the axils of the Cotyledons are constant.

322 In Sciadopitys ~~Dad~~ the structure of its Double-leaves, wholly new to me, except that the leaves of the first year are simple and have stomata (like the cotyledons) on the under side; in the 2d year the double-leaves appear. ~~Dr~~ M Masters (Teratology) (1869. p. 351. note 3) describes the prolification of the double-leaf [which Meehan also says he has seen]

390 Phyllocladus The Cladodium is a system of branches with bracts (longer, often brown, teeth pr, in Ph. trichomanoides, better developed)

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